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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/067,680 | 02/04/2002 | Tsung-Pei Chiang | B-4493 619511-2 | 7127 |

7590 12/31/2003

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EXAMINER

NGUYEN, KEVIN M

| ART UNIT | PAPER NUMBER |
|----------|--------------|
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2674

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DATE MAILED: 12/31/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/067,680

Applicant(s)

CHIANG ET AL.

Examiner

Kevin M. Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 February 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-11 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 04 February 2002 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
- a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Drawings

1. Figures 1 and 2 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Priority

2. Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d). The certified copy has been filed in parent Application No. 10/067,680, filed on 03/28/2002.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over An et al (US 6,335,719) in view of Nomura et al (US 5,881,299).

As to claim 1, An et al teach a thin-film transistor (TFT) liquid crystal display panel (10) associated with a method (column 4, lines 25-27) comprising an application specific integrated circuit (ASIC) (column 6, lines 57-58), a liquid crystal panel (10)

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having the thin-film transistor array is divided into a number of blocks (a plurality of zones, column 3, lines 40-42).

An et al fail to teach a predetermined mode. However, Nomura et al teach a related display device associated a method comprising a predetermined switch (26), a graphic area (2), and non-graphic area (1) (figure 1, column 4, lines 18-46). It would have been obvious to a person of ordinary skill in the art at the time of the invention to utilize the predetermined switch (26) taught by Nomura et al for An et al's display device because this would provide the display control can be carried out in accordance with an amount of information to be displayed, while reducing power consumption (column 2, lines 43-45 of Nomura et al).

As to claim 2, Nomura et al teach a switch (26) is closed by a cover (32) to save a power when display area (2) is not displayed (the predetermined mode is a standby mode, column 4, lines 41-46)

As to claim 3, Nomura et al teach a display area (1) is a graphic mode (figure 1, column 4, lines 66-67).

As to claim 4, Nomura et al teach the display area (2) is a video mode (figure 2A, column 4, lines 56-57).

As to claims 5 and 6, Nomura et al fail to teach a predetermined mode is dictated by the manufacturer, the graphic and non-graphic region located on a frame are determined by the manufacturer. Official Notice is taken that both the concept and the advantages of providing for displays which include a logo of their manufacturer during standby mode of an arbitrary line of a frame are well known and expected in the art. It

would have been obvious to a person of ordinary skill in the art at the time of the invention to have include the logo display in Nomura as these display are known to provide the operator with a trade name of a product to adverse their product on the market.

As to claims 7 and 8, An et al review the driving type in the graphic region and the non-graphic region using a line inversion and a frame inversion (column 1, lines 21-24).

As to claims 9 and 10, Nomura et al teach the predetermined switch (26) is controlled by a central processing unit (CPU) (10), CPU (10) associated with an operating system for the display screen (figure 1, column 4, lines 36-40).

As to claim 11, An et al teach the ASIC chip associated with a method of signaling and dividing the display area into the plurality of areas (A, B, C, D) (figure 4, column 4, lines 3-8).

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Kevin M. Nguyen** whose telephone number is **703-305-6209**. The examiner can normally be reached on MON-THU from 9:00-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Richard A Hjerpe** can be reached on **703-305-4709**.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

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or faxed to: (703) 872-9314 (for Technology Center 2600 only)

Hand-delivered response should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.



Kevin M. Nguyen
Patent Examiner
Art Unit 2674

KN
December 23, 2003